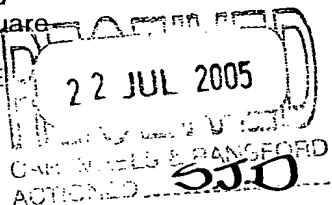


PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

GOODFELLOW, Hugh, Robin
Carpmaels & Ransford
43-45 Bloomsbury Square
London WC1A 2RA
GRANDE BRETAGNE



PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (PCT Rule 71.1)

Date of mailing
(day/month/year) 22.07.2005

Applicant's or agent's file reference
P033619wo

IMPORTANT NOTIFICATION

International application No.
PCT/GB2004/001311

International filing date (day/month/year)
26.03.2004

Priority date (day/month/year)
26.03.2003

Applicant
METRIS THERAPEUTICS LTD. et al

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international
preliminary examining authority:



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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P033619wo	FOR FURTHER ACTION See Form PCT/PEA/416	
International application No. PCT/GB2004/001311	International filing date (day/month/year) 26.03.2004	Priority date (day/month/year) 26.03.2003
International Patent Classification (IPC) or national classification and IPC A61K9/70		
Applicant METRIS THERAPEUTICS LTD. et al		
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 7 sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> sent to the applicant and to the International Bureau) a total of 1 sheets, as follows:</p> <p><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>		
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the opinion</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input checked="" type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input checked="" type="checkbox"/> Box No. VIII Certain observations on the international application</p>		
Date of submission of the demand 24.01.2005	Date of completion of this report 22.07.2005	
Name and mailing address of the international preliminary examining authority:  European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016	Authorized Officer von Eggelkraut-Gotta Telephone No. +31 70 340-4732	



**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/GB2004/001311

Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
 - ☐ This report is based on translations from the original language into the following language , which is the language of a translation furnished for the purposes of:
 - ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the **elements*** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

Description, Pages

1-19 as originally filed

Claims, Numbers

12-32 as originally filed

1-11 filed with telefax on 07.07.2005

Drawings, Sheets

1/1 as originally filed

- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3. ☐ The amendments have resulted in the cancellation of:
 - ☐ the description, pages
 - ☐ the claims, Nos.
 - ☐ the drawings, sheets/figs
 - ☐ the sequence listing (*specify*):
 - ☐ any table(s) related to sequence listing (*specify*):
 4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
 - ☐ the description, pages
 - ☐ the claims, Nos.
 - ☐ the drawings, sheets/figs
 - ☐ the sequence listing (*specify*):
 - ☐ any table(s) related to sequence listing (*specify*):

* If item 4 applies, some or all of these sheets may be marked "superseded."

**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/GB2004/001311

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:
- ☐ the entire international application,
 - ☒ claims Nos. 28-32 with respect to industrial applicability
because:
 - ☐ the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):
 - ☐ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. are so unclear that no meaningful opinion could be formed (*specify*):
 - ☐ the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.
 - ☒ no international search report has been established for the said claims Nos. 28-32 with respect to industrial applicability
 - ☐ the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:
 - the written form ☐ has not been furnished
 - ☐ does not comply with the standard
 - the computer readable form ☐ has not been furnished
 - ☐ does not comply with the standard
 - ☐ the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-*bis* of the Administrative Instructions.
 - ☐ See separate sheet for further details

**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/GB2004/001311

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	1-32
	No: Claims	
Inventive step (IS)	Yes: Claims	1-32
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-27
	No: Claims	

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

III. Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

1

- 1.1 Claims 28-32 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).

V. Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

For the assessment of the present claims 28-32 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

- 2 Reference is made to the following documents:

D1 : WO 01/80937 A (METRIS THERAPEUTICS LTD ; KNOX PETER (GB)) 1
November 2001 (2001-11-01)

- 3 INDEPENDENT CLAIM 1,21,28,29,31

- 3.1 The document **D1** is regarded as being the closest prior art to the subject-matter of claims 1,21,28,29,31 and shows (the references in parentheses applying to this

document): A drug delivery device for insertion in the vagina, rectum or nasal cavity comprising a drug such as fibrinolytic inhibitors (page 11, line 7 - page 12, line 27). An elastic lattice comprising a drug is attached to the surface of the body of the device (page 17, paragraph 1; figures 13,14). The device may comprise insertion means having a first hollow cylindrical tube and a second hollow cylindrical plunger (page 13, lines 10-16; claims 21-23).

- 3.2 The subject-matter of claim 1 differs from this known device in that D1 does not show a separate mesh sleeve. In D1 the fluid-impermeable layer forms an integral part of the device, whereas the subject-matter of claim 1 refers to a mesh sleeve adapted for use with a device for insertion into a bodily cavity and prepared separately from said device. The technical effect of that difference is that manufacturing process is greatly simplified by separating the production of the mesh sleeve with the pharmaceutical agent thereon from the device itself.
- 3.3 The subject-matter of claim 1 is therefore new (Article 33(2) PCT).
- 3.4 The problem to be solved by the present invention may be regarded as the provision of an apparatus for insertion into a bodily cavity for administering a drug which is easier to manufacture.
- 3.5 The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons: D1 does not disclose or suggest a mesh sleeve adapted for use with a device for insertion into a bodily cavity and prepared separately from said device.
- 3.6 For the reasons given above, independant claims 21,28,29,31 containing all the technical features of claim 1 are therefore also new and inventive.
- 3.7 Claims 2-20, 22-27, 30, 32 are dependent on claims 1,21,28,29,31 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

VIII. Re Item VIII

Certain observations on the international application

- 4 The application does not meet the requirements of Article 6 PCT, because claims 19 and 20 are not clear.
- 4.1 Claims 19 and 20 contain references to the drawings. According to Rule 6.2(a) PCT, claims should not contain such references except where absolutely necessary, which is not the case here.

CLAIMS

1. A mesh sleeve adapted for use with a device suitable for insertion into a bodily cavity
and prepared separately from said device such that in use the sleeve envelopes the body
of the device, and wherein the sleeve comprises a pharmaceutical agent disposed
5 thereon.
2. A sleeve according to claim 1, wherein the sleeve is adapted for use with a device
suitable for insertion into the vaginal, rectal, nasal or buccal cavity.
3. A mesh sleeve according to claim 1 or claim 2, wherein said sleeve has one open end
and one substantially closed end.
- 10 4. A mesh sleeve according to claim 1 or claim 2, which is open at both ends.
5. A mesh sleeve according to any one of claims 1 to 4, wherein said mesh sleeve can
expand when the device expands during use.
6. A mesh sleeve according to claim 5, wherein the ability to expand is conferred by the
presence of an overlap of mesh material.
- 15 7. A mesh sleeve according to claim 5, wherein the ability to expand is conferred by the
elasticity of the mesh material.
8. A mesh sleeve according to claim 5, wherein the ability to expand is conferred by a
combination of the elasticity of the mesh material and the presence of an overlap of
mesh material.
- 20 9. A mesh sleeve according to any one of claims 1 to 8, which comprises a tethering
component suitable for attachment of the sleeve to the body of the device.
10. A mesh sleeve according to claim any one of claims 1 to 9, wherein the material from
which the mesh sleeve is made is cotton, such as non-wettable cotton.
11. A mesh sleeve according to any one of claims 1 to 10, which has 1, 2, 3, 4, 6, 8 10, 20,
25 50, 100 or more discrete pharmaceutical coupons attached thereto.